

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,125,975 B2  
APPLICATION NO. : 10/755166  
DATED : October 24, 2006  
INVENTOR(S) : Muthiah Manoharan et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1) Title Page:

Item [60], Related U.S. Application Data, please delete

“Continuation of application No. 10/073,718, filed on Feb. 11, 2002, now Pat. No. 6,831,166, which is a division of application No. 09/633,659, filed on Aug. 7, 2000, now Pat. No. 6,395,492, which is a division of application No. 08/211,882, filed on Apr. 22, 1994, now Pat. No. 6,153,737, which is a continuation-in-part of application No. PCT/US92/09196, filed on Oct. 23, 1992.”

and insert therefore

--Continuation of application No. 10/073,718, filed on Feb. 11, 2002, now Pat. No. 6,831,166, which is a division of application No. 09/633,659, filed on Aug. 7, 2000, now Pat. No. 6,395,492, which is a division of application No. 08/211,882, filed as application No. PCT/US92/09196 on Oct. 23, 1992, now Pat. No. 6,153,737.--;

2) Column 6, line 21, please delete “B6” and insert therefore --B<sub>6</sub>--;

3) Column 9, line 61, please delete “.”;

4) Column 10, line 12, please delete “-”;

5) Column 10, line 54, please delete “Bas” and insert therefore --Base--;

6) Column 11, line 58, please delete “.” after “treated”;

7) Column 12, line 13, please delete “C<sub>s</sub>T<sub>s</sub>G<sub>s</sub>T<sub>s</sub>C<sub>s</sub>T<sub>s</sub>C<sub>s</sub>C<sub>s</sub>A<sub>s</sub>T<sub>s</sub>C<sub>s</sub>C<sub>s</sub>T<sub>s</sub>C<sub>s</sub>T<sub>s</sub>T<sub>s</sub>C<sub>s</sub>AC<sub>s</sub>T” and insert therefore --C<sub>s</sub>T<sub>s</sub>G<sub>s</sub>T<sub>s</sub>C<sub>s</sub>T<sub>s</sub>C<sub>s</sub>C<sub>s</sub>A<sub>s</sub>T<sub>s</sub>C<sub>s</sub>C<sub>s</sub>T<sub>s</sub>C<sub>s</sub>A<sub>s</sub>C<sub>s</sub>T--;

8) Column 15, line 47, please delete “is” and insert therefore --“s”--;

9) Column 17, line 14, please delete “Na<sub>2</sub>CO<sub>3/1</sub>M” and insert therefore --Na<sub>2</sub>CO<sub>3</sub>/1M--;

10) Column 17, line 44, please delete “Na<sub>2</sub>HCO<sub>3/1</sub>M” and insert therefore --Na<sub>2</sub>HCO<sub>3</sub>/1M--;

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### HPLC Retention Times Of Oligonucleotides Functionalized At 2' Position

Oligomer	Retention Time Minutes	
	Mono Substitution	Multiple Substitution
Oligomer 12 <sup>1</sup>	21.78	
Oligomer 13 <sup>1</sup>	22.50	
Oligomer 19 <sup>2</sup>	23.58	
Oligomer 20 <sup>2</sup>	24.16 <sup>a</sup>	25.19 <sup>b</sup>
Oligomer 21 <sup>3</sup>	26.65	
Oligomer 22 <sup>3</sup>	26.99 <sup>a</sup>	29.33 <sup>b</sup>
	27.55 <sup>a</sup>	
Oligomer 23 <sup>4</sup>	30.10	
Oligomer 24 <sup>4</sup>	30.38 <sup>a</sup>	37.00 <sup>b</sup>
	32.22 <sup>a</sup>	
Oligomer 25 <sup>5</sup>	28.06	
Oligomer 26 <sup>5</sup>	28.14 <sup>a</sup>	33.32 <sup>b</sup>
	29.24 <sup>a</sup>	

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and insert therefore

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TABLE 1

HPLC Retention Times Of Oligonucleotides Functionalized  
 At 2' Position

Oligomer	Retention Time Minutes	
	Mono Substitution	Multiple Substitution
Oligomer 12 <sup>1</sup>	21.78	
Oligomer 13 <sup>1</sup>		22.50
Oligomer 19 <sup>2</sup>	23.58	
Oligomer 20 <sup>2</sup>		24.16 <sup>a</sup> 25.19 <sup>b</sup>
Oligomer 21 <sup>3</sup>	26.65	
Oligomer 22 <sup>3</sup>		26.99 <sup>a</sup> 29.33 <sup>b</sup> 27.55 <sup>a</sup>
Oligomer 23 <sup>4</sup>	30.10	
Oligomer 24 <sup>4</sup>		30.38 <sup>a</sup> 37.00 <sup>b</sup> 32.22 <sup>a</sup>
Oligomer 25 <sup>5</sup>	28.06	
Oligomer 26 <sup>5</sup>		28.14 <sup>a</sup> 33.32 <sup>b</sup> 29.24 <sup>a</sup>

--;

12) Column 21, line 14, please delete "Prot in-Conjugated" and insert therefore --Protein-Conjugated--;

13) Column 21, line 27, please delete "'is'" and insert therefore --"s"--;

14) Column 22, please delete

--

TABLE 2

OLIGONUCLEOTIDE ANALYSIS VIA ENZYMATIC DIGESTION

Oligomer	Abs. max.	Observed Ratios**			
		267 C	252 G	267 T	260 A
Oligomer 10	2	1		1	
Oligomer 11	3	5	2	1	
Oligomer 12	9	1	8	1	1
Oligomer 13	9	1	8	2	"

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And insert therefore

--  
TABLE 2  
OLIGONUCLEOTIDE ANALYSIS VIA ENZYMATIC DIGESTION

Oligomer	Abs. max.	<u>Observed Ratios **</u>				A
		267 C	252 G	267 T	260 A*	
Oligomer 10		2	1		1	
Oligomer 11		3	5	2	1	
Oligomer 12		9	1	8	1	1
Oligomer 13		9	1	8	2	--;

15) Column 24, line 46, please delete "phase-HPLC" and insert therefore --phase HPLC--;

16) Column 29, line 7, please delete "solution-of" and insert therefore --solution of--;

17) Column 39, line 19, please delete "3" and insert therefore --30--;

18) Column 46, Claim 5, lines 32-33, please delete "5'-position" and insert therefore --5'-O-position--.

Signed and Sealed this

Sixteenth Day of January, 2007



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*